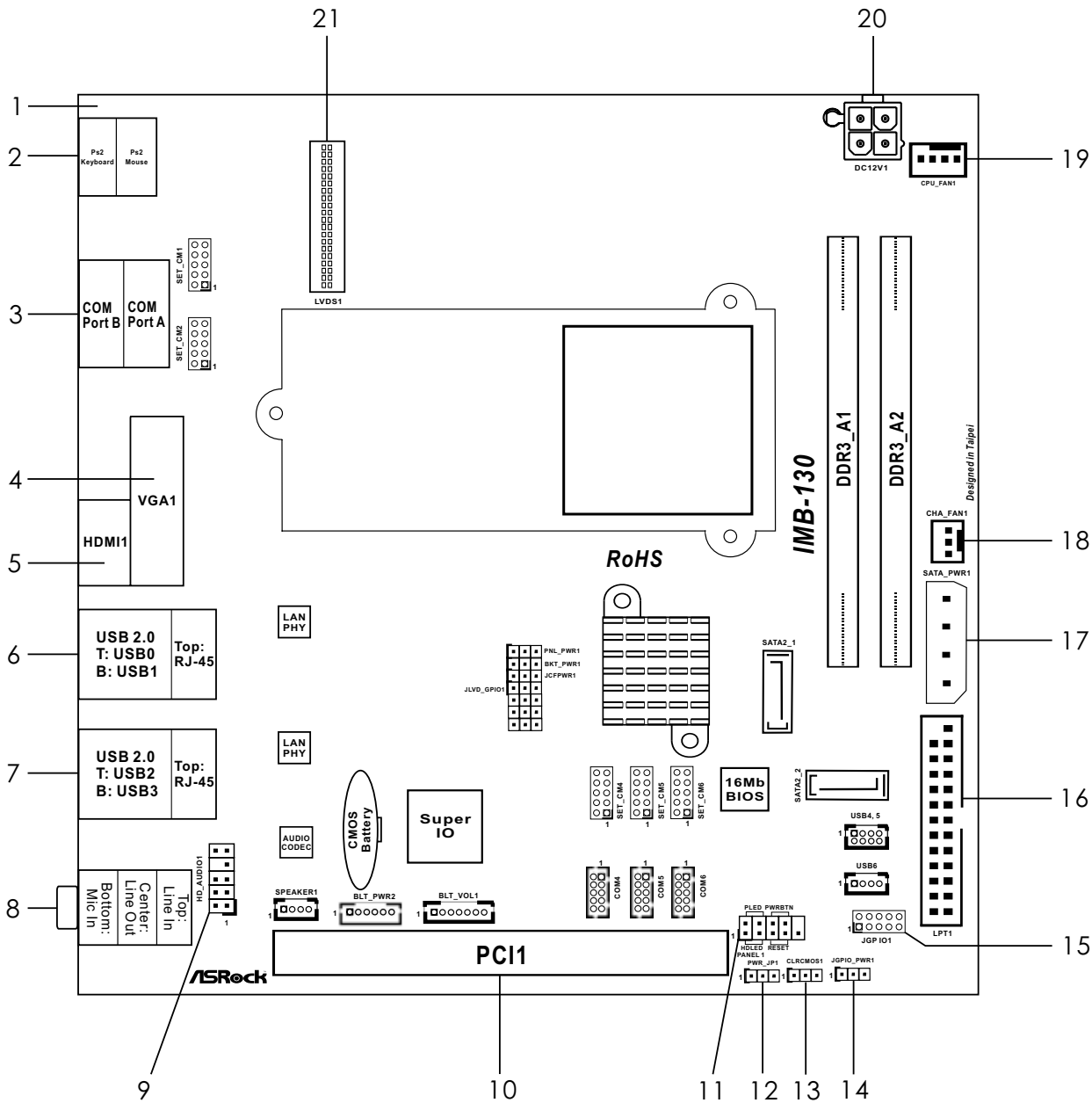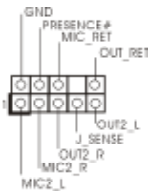# ASRock® Jumpers and headers setting guide

IMB-130

1 : Reserve for Antenna or DC-In Cable
2 : Higher (Green) – PS/2 Mouse
    Lower (Purple) – PS/2 KeyBoard
3 : Higher: COM Port A – RS232/422/485
    Lower: COM Port B – RS232 Only
4 : VGA/D-Sub
5 : HDMI Port
6,7 : RJ45 LAN Port + USB2.0
8 : Audio Out Put
    Light Blue – Line In
    Lime – Line Out
    Pink – Mic In
9 : Front Panel Audio Header (White)

10 : PCI Slot
11 : System Panel Control Header (White)
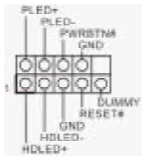
12 : PWR-On mode setting
    1-2: AT Mode
    2-3: ATX Mode

13 : Clear CMOS Header
    1-2: Normal
    2-3: Clear CMOS

14 : Digital I/O Header PWR setting
    1-2: +12V
    2-3: +5V
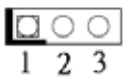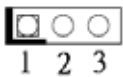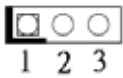
15 : Digital I/O Header
    GPIO from Super I/O
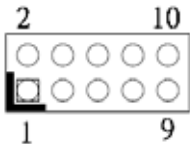
Pin #	Signal Name	Pin #	Signal Name
1	GP24	2	GP20
3	GP25	4	GP21
5	GP26	6	GP22
7	GP27	8	GP23
9	PWR	10	GND

16 : Printer Port Header
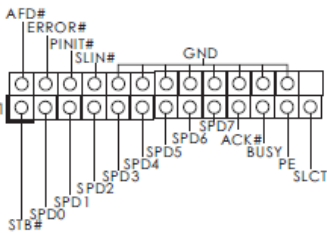
17 : Output Power
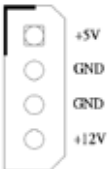
18 : 3-Pin FAN con (+12V)
19 : 4-Pin FAN con (+12V)
20 : 4-Pin ATX PWR In (+12V)
21 : LVDS Con
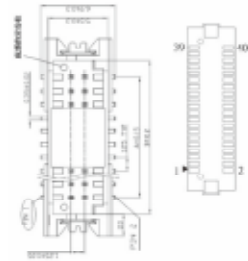
LVDS Con Pin Definition

Pin #	Signal Name	Pin #	Signal Name
1	VDD PWR	2	VDD PWR
3	EDID PWR (3V)	4	EDID_CLK
5	EDID_DAT	6	RXINO0-
7	RXINO0+	8	GND
9	RXINO1-	10	RXINO1+
11	GND	12	RXINO2-
13	RXINO2+	14	GND
15	RXINO3-	16	RXINO3+
17	GND	18	RXOCLKIN-
19	RXOCLKIN+	20	GND
21	RXINE0-	22	RXINE0+
23	GND	24	RXINE1-
25	RXINE1+	26	GND
27	RXINE2-	28	RXINE2+
29	GND	30	RXINE3-
31	RXINE3+	32	GND
33	RXECLKIN-	34	RXECLKIN+
35	GND	36	BackLight EN
37	BackLight PWM	38	BackLight PWR
39	BackLight PWR	40	BackLight PWR

35 36 37 38

22

23

Ps2 Keyboard / Ps2 Mouse

SET_CM1

COM Port B / COM Port A

SET_CM2

VGA1

HDMI1

LVDS1

RoHS

IMB-130

DDR3_A1 / DDR3_A2

Designed in Taipei

DC12V1 / CPU_FAN1

CHA_FAN1

SATA_PWR1

USB 2.0 T: USB0 B: USB1 / Top: RJ-45

LAN PHY

PNL_PWR1 / BKT_PWR1 / JCFPWR1

JLVD_GPIO1

SATA2_1

USB 2.0 T: USB2 B: USB3 / Top: RJ-45

LAN PHY

CMOS Battery

AUDIO CODEC

Super IO

SET_CM4 / SET_CM5 / SET_CM6

16Mb BIOS

SATA2_2

USB4, 5 — 33

USB6 — 34

Top: Line In / Center: Line Out / Bottom: Mic In

AUDIO_HD1

SPEAKER1 / BLT_PWR2 / BLT_VOL1

COM4 / COM5 / COM6

PLED_PWRBTN

JGPIO1

LPT1

PCI1

PANEL1 / PWR_JP1 / HDLED / RESET / CLRCMOS1 / JGPIO_PWR1

ASRock

24   25   26   27 28 29   30 31 32

COM Port PWR Setting headers
22 : For COM PortB
23 : For COM PortA
27 : For COM PortD
28 : For COM PortF
29 : For COM PortE

+12VO   +12VO
SET_COM
CM8 P9 / CM9 P9
HEADER_2X6P
+5VO   +5VO

Internal COM port connectors:
30 : COM PortD
31 : COM PortF
32 : COM PortE

COM7
RRXD_5 / DDTR#_5 / DDSR#_5 / CCTS#_5   CM5_P1 / TTXD_5 / RRTS#_5 / CM5_P9
WTOB_CON_2X5P

24 : Speaker connector

R+   L-
1 □○○○ 4
R-   L+

25 : Panel BackLight Inverter connector
1,2=> GND
□○○○○○
1   6
3=> Panel Backlight Control
4=> Panel Backlight Enable
5,6=> Panel Backlight Power

26 : Panel Brightness and Speaker Volume control
Pin definition: 1=> Volume_UP
2=> Volume_DOWN
3=> PANEL PWR Down
4=> Panel BackLight UP
5=> Panel BackLight Down
6=> GND
7=> GND
1 2 3 4 5 6 7
□○○○○○○

Internal USB connectors
33 : USB Port4, 5
PWR -4 +4 GND
1 □○○○○ 7
2 ○○○○ 8
PWR -5 +5 GND

34 : USB Port6
1 □○○○ 4
PWR -6 +6 GND

38 : Panel resolution selection

High Low
GPIO0
GPIO1
GPIO2
GPIO3

35 : Panel VDD PWR Setting
1-2: +3.3V
2-3: +5V
□ ○ ○
1 2 3

36 : Panel BackLight PWR Setting
1-2: +5V
2-3: +12V
□ ○ ○
1 2 3

37 : Bottom Side CF Card PWR Setting
1-2: +3.3V
2-3: +5V
□ ○ ○
1 2 3

Note: If you want to use BIOS to set Panel type, then set all GPIO[3:0]= "1111".
If you want to use jumpers to set Panel type, select "Set by Jumper" in BIOS.

The setting table

GPIO [3:0]	Selection Name In BIOS	HA (Pixel)	VA (Line)	CD (bit)	Port	BackLight Type	Invert PWM output	Remark
0000	1366x768/18-bit/1-ch/LED	1366	768	6	Single	LED	No	
0001	800x600/18-bit/1-ch/CCFL	800	600	6	Single	CCFL	Yes	
0010	1024x768/24-bit/1-ch/CCFL	1024	768	8	Single	CCFL	Yes	
0011	1280x1024/24-bit/2-ch/CCFL	1280	1024	8	Dual	CCFL	Yes	
0100	1366x768/24-bit/1-ch/CCFL	1366	768	8	Single	CCFL	Yes	
0101	1440x900/24-bit/2-ch/CCFL	1440	900	8	Dual	CCFL	Yes	
0110	1024x600/18-bit/1-ch/LED	1024	600	6	Single	LED	No	
0111	1440x900/24-bit/2-ch/LED	1440	900	8	Dual	LED	No	Default Setting
1000	1280x1024/24-bit/2-ch/LED	1280	1024	8	Dual	LED	No	
1001	1024x768/24-bit/1-ch/LED	1024	768	8	Single	LED	No	
1010	1600x900/18-bit/2-ch/LED	1600	900	6	Dual	LED	No	
1011	1366x768/24-bit/1-ch/LED	1366	768	8	Single	LED	No	
1100	1920x1080/24-bit/2-ch/LED	1920	1080	8	Dual	LED	No	
1101	800x600/24-bit/1-ch/LED	800	600	8	Single	LED	No	
1110	640x480/24-bit/1-ch/LED	640	480	8	Single	LED	No	
1111	1280x800/18-bit/1-ch/LED	1280	800	6	Single	LED	No	